

CRL-VTEC Ring test 2008

Part IV

Real-time PCR identification of VTEC

Purposes

- Evaluate the capacity building of the NRLs network in response to:
- ✓ New standards (ISO level)
 - ✓ Monitoring plans at (EU level)
 - ✓ New policies for VTEC in food control (national and EU level)

General evaluation

- ◆ 15 out of 28 (53.5%) NRLs performed part IV for the detection of *vtx2* and *eae* genes
- ◆ 14 out of 28 (50%) NRLs Performed part IV for the detection of *vtx1* gene
- ◆ 13 out of 28 (46,4%) NRLs performed part IV for the molecular serogrouping

Part IV results-Vir genes

- ✓ 100% of 15 NRLs correctly detected the *vtx2* and *eae* genes
- ✓ One out of 14 NRLs failed to identify two *vtx1*+ve strains (A08 and C08)
Se=50% Sp=100%
- ✓ One out of 14 NRLs incorrectly identified as *vtx1*+ve the strain D08
Se=100% Sp=66,6%

Part IV results- O groups

- ✓ 12 of 13 NRLs correctly detected all the O groups specified in the guideline
- ✓ One out of 13 NRLs incorrectly identified as O103 the strain B08 (O121)
- ✓ One NRL included in the screening the O91 in addition to the panel in the GL (and was correct!)

Summary I

- ✓ About half of the NRLs performed the Real time PCR section of the Ring trial 2008
 - ✓ Lack of technology?
 - ✓ Lack of skill?
 - ✓ Other issues?

Summary II

- ✓ Excellent results for *vtx2* and *eae* detection
- ✓ Satisfactory results for *vtx1* detection
- ✓ Excellent performance of the molecular serogrouping (comparable to the agglutination assay)